

Known Heat Shock-Induced Genes:

<i>ibpA</i>	CAAAAAAAGTCCGC	GATAAAGGCTTGAAAGTTCA	TTT---CCAGACCCATTTT	TACATCGTAGCC	SEQ.ID.NO.:	23
<i>yrfG</i>	ATTGAGCCCTATTATGAAAGCTG	CTGTGAACCCGCAACTG---	ATCACCCCTTCAGAAAGCCTT	TATGTC		24
<i>ycvV</i>	CCGGTCTGATGACCAAGGATT	TATTTTCAGAAATCACGG---	GATGCCGCAATTGATGCCGCAATTG			25
<i>fxsA</i>	ACCAAAAAATAGTTGCGCAAAACAT	CTTGAAAATTTTGCTA---	ATGACCACAATATAAGCTAAACGCG			26
<i>dnaK</i>	ACAAAAAATTTTGCAATCTCC	CCCTTGATGACGTGGTTT---	ACGACCCCATTTAGTAGTCAACCCGC			27
<i>hspG</i>	GAGAGCAGGATCACCTGCTCT	CGCTTGAAATTAATCTCCC---	TTGTCCCATCTCTCCACATCCTG			28
<i>clpP</i>	CGTAAACAACAAAAGATTGTT	TATGCTTGAAATATGGTGATG---	CCGTACCCATAACACAGGACTAGC			29
<i>clpB</i>	TTCAATTAATCTGGTCAATAAAC	CTTGAATAATTGAGG---	ATGACCTCAATTAATCTCCAGTAGC			30
<i>hsN</i>	CTGCATTGGCTCGCCCGGGGG	TTGAAACCTCAAAA---	TCCCCCATCTATAATTGCATTAT			31
<i>groES</i>	CAGAAATTTTCTCTTTTCC	CCCTTGAAAGGGCGAAGCC---	TCAATCCCATTTCTCTGGTCACCG			32
<i>lon</i>	TTAATTTTCCCTCTATTTCC	GGCGTTGAATGTGGGGAA---	ACATCCCATATACTACGTACATG			33
<i>hspX</i>	TGGTGACTTACGCACATCCAGA	CTTGAAAATAGTCG---	CGTAACCCATACGATGTGGGTATCG			34
<i>grpE</i>	TTGATGACAAATGTGAGTGCTT	CCCTTGAAAACCTTGAAC---	TGATCCCATATAAAGCGAAGTTAG			35
<i>rrmJ</i>	TCGTATTTTGTGCTTACGT	TGGGATTGAAAACGGGTCA	TT---CTACCGCCATCTCCCATATATCACC			36
consensus	--GAA-----AT-----T-----T-----C-----C-----T-----					37

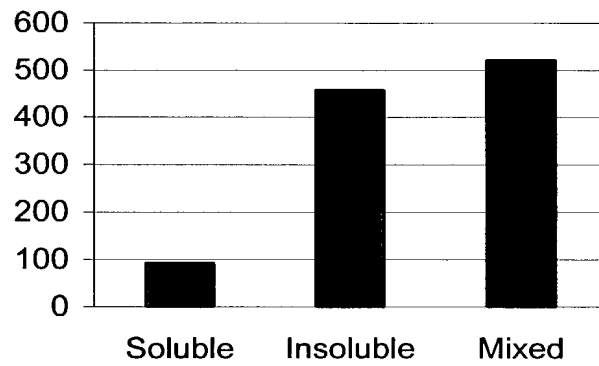
Additional Genes Induced by Translational Misfolding:

<i>yagU</i>	TGATGATGGGAGCTGGTTT	TATTCCTTTAGTTGTACGATGC---	AAAAACCAATAAGGAAACCTGTGAT	SEQ.ID.NO.:	38
<i>yciS</i>	TTTTCCGAATTTAGCCCTTAAAT	CAACAACAATGCGTG---	TGGATGCCATTTTCGCAGACGGCGC		39
<i>ybeD</i>	CTGGTTTGGTTAAAAAATTA	AAACACTTGAAAGTGTAATTT---	CCGTCCCATATACTAAGCATCAGT		40
<i>araE</i>	ATAATCTCAATAATTCAACT	TAAATTTGAAAATTGGAATA---	TCCATCACATAACGACATGTCCGAG		41
<i>exbB</i>	TTTGCTGCGTCTCGCATTCAC	CAGTTGAGTATCAAGCTTTT---	TGTCCGCCATGTCGGGATTCCCTGTT		42
<i>yglI</i>	GCAACCTGA	AAAAATGCCTTTCGTCTTGAA	TTGCCCGTGCA---AGGTCCCATATGGTGATTGTGGAT		43

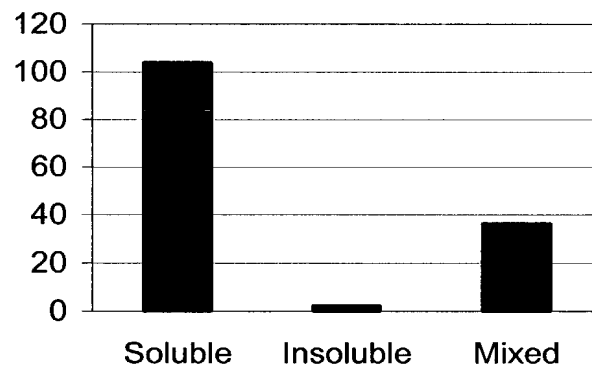
Figure 1

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A. Relative β -galactosidase activity



B. Relative NiHRP absorbance



C. Solubility Scores

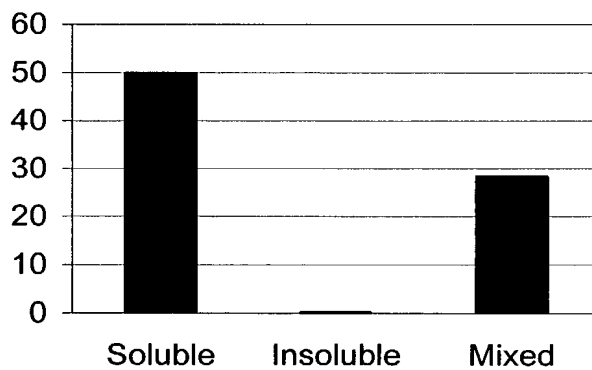


Figure 2

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Summary of Screening Results for 186 *T. maritima* proteins

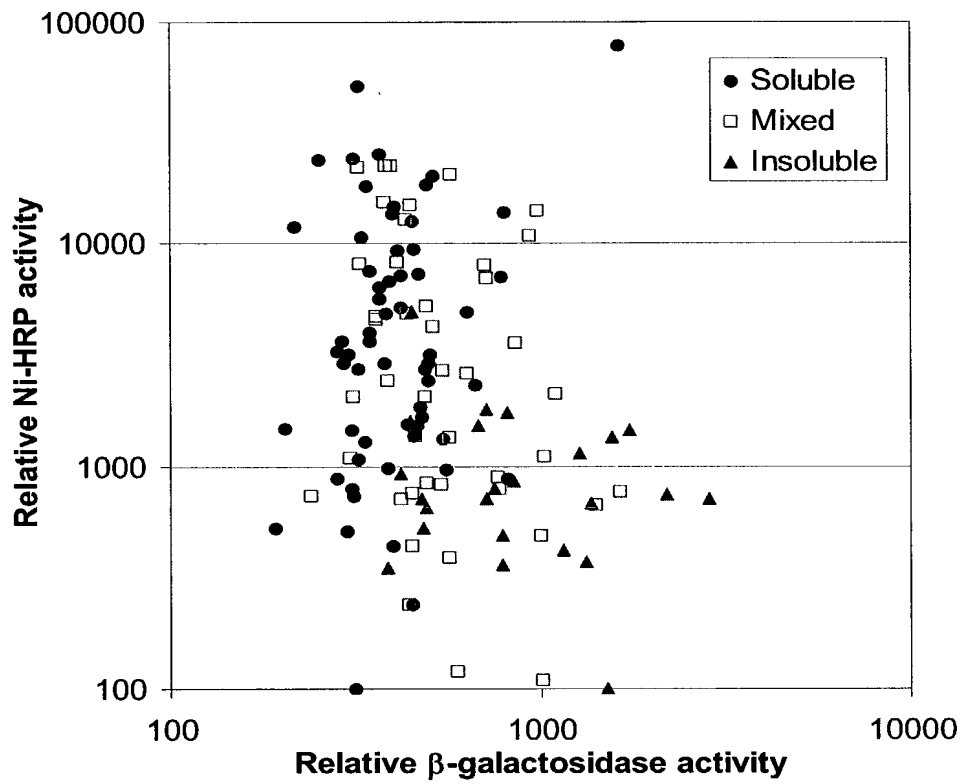
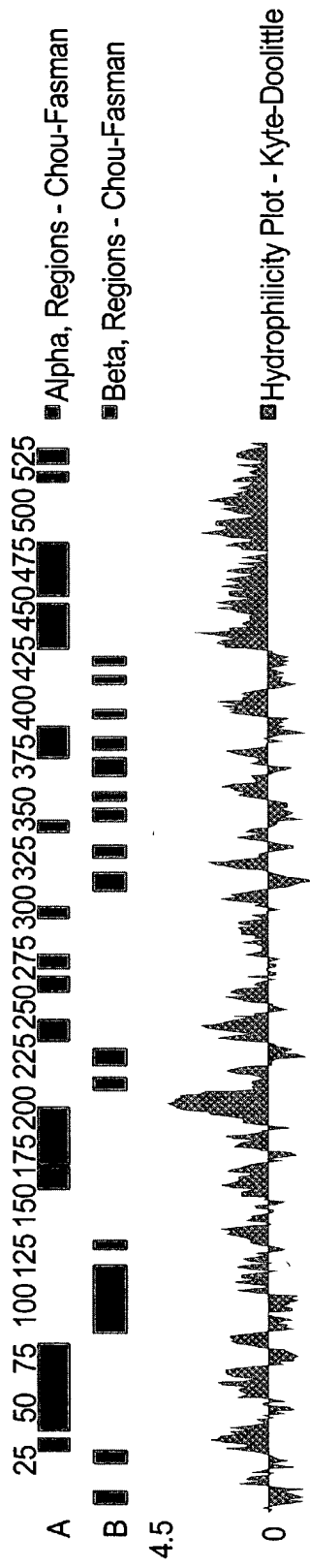


Figure 3



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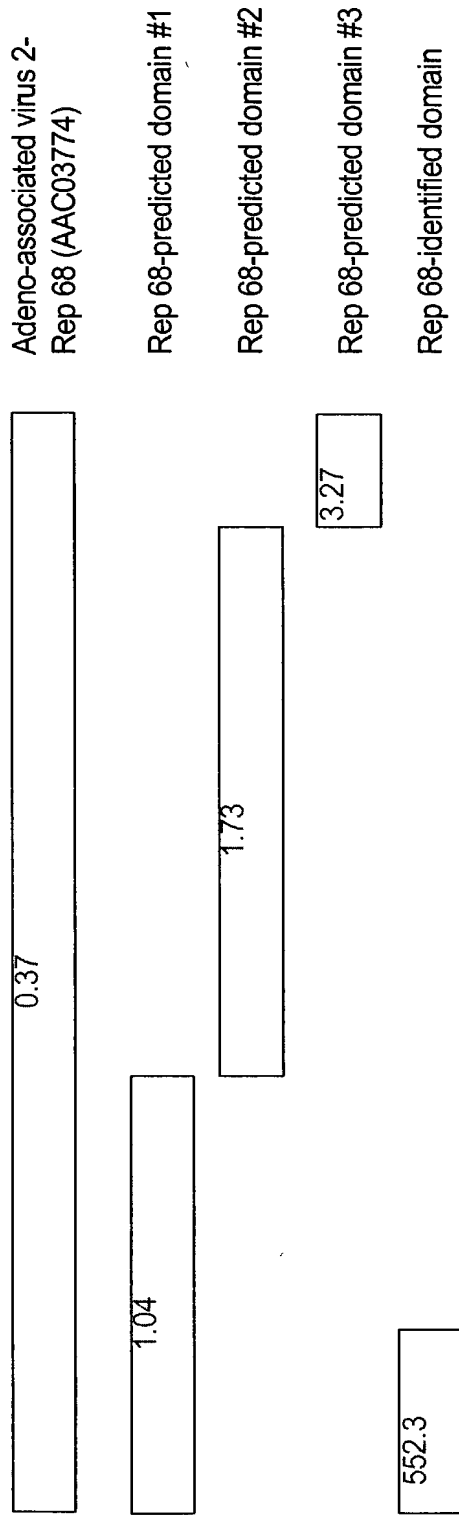


Figure 4